

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
IN-OFFICE REVIEW/BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATIONPermit No: 96-9511

Exam Date: 05-06-14

1. Does this qualify for an in-office field exam (IDAPA 035.02.r)? X Y N
- Irrigation of 5 acres or less
 - Storage of up to 14.6 AF for stockwater purposes only
 - Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less
 - Other < >

2. Current Owner: Name: Scott MacDonald
Owner of Record Correct? Y X N
Address of Record Correct? Y N X Unknown
If No: Address

Taxlot Address: taxlot address is incomplete. Owner of permit not owner of taxlot (data updated 05/24/12).

3. Beneficial Use Fees have been paid: X Y N Receipt No: C098635

4. SOURCE**TRIBUTARY**

Pend Oreille River

Columbia River

Method of Determination: Pump location provided by Permit Holder.

Change in Source: Y X N**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: X NO Overlap

Water Right No.	Source	Purpose of Use	Basis
96-9535	Groundwater	Municipal	Permit

Comments: POU is blk 1 lot 2 Gypsy Bay SubDivision (RP001690010010A). 96-9405 is for blk 1 lot 10 of Gypsy Bay SubDivision (RP001690010100A) east of POU. 96-8275 is for irrigation and domestic use for 19 homes in the Gypsy Bay subdivision. Only 12 homes were identified at the time the of the field exam for 96-8275. Blk 1, Lot 2 Gypsy Bay Subdivision was not one of the homes identified initially.

2. Other water rights with the same point of diversion: X NO Overlap

Water Right No.	Source	Purpose of Use	Basis

Comments: 96-9535 and 96-8275 are for a groundwater source.

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
Pend Oreille River	1		NE	NE	34	57N	03W	B.M.	Bonner
								B.M.	

Method of Determination: Pump location provided by permit holder.

Change in POD? Y X N Amendment Required? Y X N

If needed, ownership change can be done after licensing.

Permit No: 96-9511

Page 2

2. **PLACE OF USE:** Use: Domestic

TWP	RGE	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
57N	03W	34	X																
		Lot #	1																
																		Total Acres =	

Method of Determination: GIS imagery. Taxlot RP001690010010A, Blk1, Lot2, Gypsy Bay Subdivision

Change in POU? ____Y __X__N Amendment Required? ____Y __X__N

__ Delivery System Diagram Attached (required). Indicate all major components and distances between components.

Indicate weir size/pipe as applicable.

__ Aerial Photo Attached (required for irrigation of 10+ acres).

__ Photo of Diversion and System Attached

4. Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements: < _____ >

E. FLOW CALCULATIONS

____Additional Computation Sheets Attached

Measured Method:

IDWR Standard per Field Examiners Handbook – Single Family Domestic Home – 0.04 cfs home plus yard.

Permit allowed = 0.04 cfs

License recommend for 0.04 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{\hspace{2cm}}$

$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = \underline{\hspace{2cm}}$

$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{\hspace{2cm}}$

2. Volume Calculations for Other Uses:

No 13,000 gal/day condition or equivalent therefore is NOT Domestic use as defined in Section 42-111, Idaho Code.

- Volume reporting required

IDWR Standard per Field Examiners Handbook – Single Family Domestic Home – home plus yard (< 0.5 acre) – 1.2 AFA

License recommend for 1.2 afa.

G. PURPOSE OF USE

Irrigation _____N # Stock _____ Domestic # of Homes _____1_____

Other:

Change in Purpose of Use? _____Y _____X _____N

Method of Determination: Home visible on GIS Imagery.

If Yes: From Use _____ To Use _____ Amount _____ CFS _____ AFA _____

H. NARRATIVE/REMARKS/COMMENTS

Headgate Requirement: 3.0

Consumptive Use: 2.0

Season of Use: 04/01 to 10/31 (214 days)

Conditions:

- Use for one home and no more than 0.5 acre irrigation.
- A fish screen of 0.25 inches or smaller mesh shall be installed and maintained at the POD.
 - o Picture of fish screen provided. - condition carried over to permit, OK By Shellyk, 06/07/14 9:40am
- POU Blk 1, Lot 2 Gypsy Bay Subdivision.

Have conditions of permit approval been met? _____Yes _____No

I. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
Domestic	01/01 to 12/31	0.04 CFS	1.2 AF
<u>Totals:</u>		0.04 CFS	1.2 AF

2. Recommended Amendments

____Change P.D. as reflected above ____Add P.D. as reflected above ____X_None

____Change P.U. as reflected above ____Add P.U. as reflected above ____X_None

Other:

J. AUTHENTICATION

Field Examiner's Name Daniel L. Farnsworth Date 06/07/14

Reviewer Daniel L. Farnsworth Date 6-13-14

THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 96-9511
 Reviewer: Dan Nelson
 Date of Review: 6/13/2014

P/D No.:	Senerio 1	Senerio 2	Senerio 3
PUMP HORSEPOWER	1.5	1.5	1.5
BOOSTER HORSEPOWER	0	0	0
PUMPING LEVEL	40	40	40
DISCHARGE PRESSURE	40	50	60
RATE OF FLOW (cfs)	0.07 31	0.06 27	0.05 23
			0.06 27.07

The above calculates the formula =

$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Assumptions: %70 efficiency.
 No Friction

Examiners Notes:

The horsepower was supplied by the owner of the system through a picture of the pump. The pressure was estimated by using the standard for pressure tank turn on and shut off of 40 to 60 psi. The lift was estimated using the maximum deliniation between the topo map's elevation lines. The pump far exceeds the maximum allowed by the permit.

[illegible]

POA
96-9511



Notice
line is "broken"

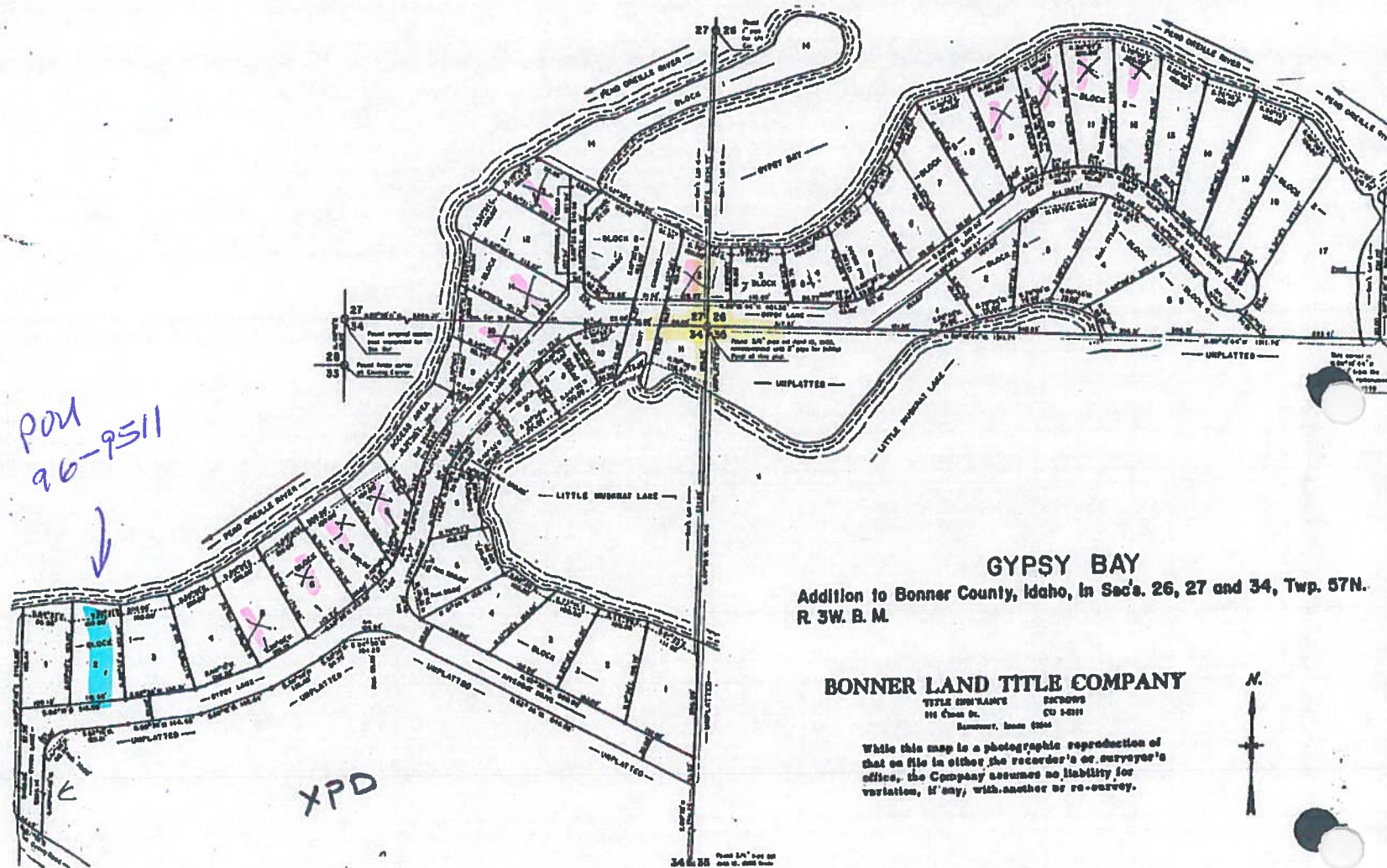


XPD

X indicates P.u. 96-8273

MAY 26 1993

RECORDED



GYPSY BAY

Addition to Bonner County, Idaho, in Sec's. 26, 27 and 34, Twp. 57N.
R. 3W. B. M.

BONNER LAND TITLE COMPANY

TITLE INSURANCE
100 Canal St.
Bozeman, Idaho 83725

While this map is a photographic reproduction of
that on file in either the recorder's or surveyor's
office, the Company assumes no liability for
variation, if any, with another or re-survey.



State of Idaho

DEPARTMENT OF WATER RESOURCES

322 East Front Street • P.O. Box 83720 • Boise, Idaho 83720-0098

Phone: (208) 287-4800 • Fax: (208) 287-6700 • Website: www.idwr.idaho.gov

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

5/9/2014

Scott MacDonald
250 Chaparral Court SE
Calgary, AB T2X3M3

RE: Water Appropriation Permit 96-9511

RECEIVED
JUN 02 2014
DEPARTMENT OF
WATER RESOURCES

Request for Information

Dear Permit Holders:

In 2013 IDWR issued permit 96-9511 authorizing the development of a right to divert 0.4 cfs of water from Pend Oreille River, tributary to the Columbia River, within Lot 1 of Section 34, Township 57 North, Range 03 West, B.M., for domestic use.

The final step in the water appropriation process is the issuance of a Water Right License. By issuing a license, IDWR recognizes that water has been put to beneficial use in accordance with the permit. For your convenience, I am enclosing a copy of permit(s) listed above.

In an attempt to expedite the licensing process, IDWR would like for you to provide the following information regarding your permit:

Point of Diversion Information:	Photographs of the pump and the point of diversion. If possible, GPS coordinates of pump location – latitude/longitude. At a minimum, please mark the point of diversion information on the provided map.	☒
Pump Information:	Make, Model, Serial Number, and Horse Power of Pump or a picture of the pump plate	☒

Permit 96-9511 includes the following conditions:

#5 A fish screen of 0.25 inch or smaller mesh shall be installed and maintained at the point of diversion.

Please provide:

Photographs of:	The fish screen on the pump intake or other fish passage restriction device.	☒
Screen Design Information:	Must be 0.25 inch or smaller mesh.	☒

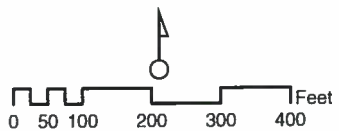
The photographs submitted should be of sufficient number and at sufficient angles in order to confirm compliance with the conditions listed on the permit.

You can request that IDWR personnel go into the field to collect this information accompanied by yourself or your representative. For this to occur, please contact me by May 30, 2014. If you would like your representative to be present, please have the name, telephone number, and email of your representative. Be aware that you and/or the representative must be available to be contacted and for scheduling of the required visit within a timely manner.

In addition, I have enclosed a map of the identified Place of Use for Permit 96-9511. Based on the map provided in the application, the place of use has been identified as Block 1, Lot 2 of the Gypsy Bay Subdivision. If this is incorrect, please contact me.

IF you have questions Please call.
Scott 403.973.1989

96-9511



D. Favreau

05/05/14

SENW

SWSW

26

SWSW 5

SESE 4

27

57N03W

NENE 1

34

Pump

NWNW

35

NWNE 2

SWNE 5

SENE

SWNW

INTAKE WITH
FISH SCREEN



Flotec®

Delavan, Wisconsin 53115

Pump Model No.

FP5172-08

Code/Código

001E13X

0052

UL778
CSA108

LR47013



C US

Assembled in USA

CSA ENC 2
INDOOR USE

Motor#

C48L2EC11C3

HP 1 1/2

KW

115/230V

3450RPM

1PH 60 Hz

KVA

MaxLoad Amps 19.9/9.95

S.F. 1.1

THERMALLY PROTECTED

TYPE T

Insulation Class B Ambient Temp. Time Range 50 °C

A.O. Smith

Relever le numéro de modèle de la pompe avant de remplacer le moteur.

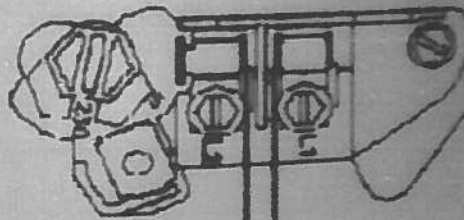
Relever le numéro de modèle de la pompe avant de remplacer le moteur.

Relever le numéro de modèle de la pompe avant de remplacer le moteur.

*Motor prewired 230 Volt.

*Le moteur est câblé pour le courant 230 Volts.

*El motor está precableado para 230 Voltios.



NEUTRAL LINE



GROUNDING

HIGH VOLTAGE SIGNAL: REDUCE
DOWN TO 115 FOR LOW VOLTAGE

USE COPPER CONDUCTORS ONLY
INSTALL MOTOR WITH JERSEY WIRE

ACCEPTABLE FOR FELDING

*For supply connection use wires acceptable for at least 75° C.

*Pour les connexions du courant d'alimentation, utiliser des fils pouvant supporter une température au moins 75° C.

*Para las conexiones de corriente de energía, use cables aceptables por lo menos 75° C.

*Manufacturer Approved for Indoor and Outdoor Use
U33-210

*Approuvé par le fabricant pour usage à l'intérieur ou à l'extérieur

*Aprobado por el fabricante para uso en interiores y exteriores